TYPE 60EQR SUMMARY OF DATA

PURPOSE

A low power (25 watts) L.F., M.F. and H.F. transmitter for emergency It is fitted in all classes of ships.

TYPE OF TRANSMISSION

C.W. and M.C.W. (100 kc/s - 17 Mc/s) Voice (400 kc/s - 17 Mc/s)

FREQUENCY RANGE

100 kc/s - 17 Mc/s

MAJOR UNITS

Type 60EQR comprises the following units:-

Patt. No.	Dependent for	Physical Data			
	Description	Height	width	Depth	
4807 L/M 53369	Transmitter LT Control Unit, Des. 9 for	Fitted in Patt, WL31 Framework		, w431	
WL31	Trensmitter LT Support for Transmitter LT and Control Unit	4.1434	11 71	1 : 42 :	
w8262	Relay Unit, Design 4	734	43m	34"	
56191	Relay Unit, Design 16	7 ¾s	4 3 n	34"	
w1453	Condenser unit with Switch for Transmitter 4T	71#	44"	3½ ti	
W3768	Condenser unit with Switch Des. B.	5±*	440	34 n	
W147/A	Hotor Generator 150 watts, 900 volts, 22/26V. supply	1011	18 28	5 1 *	



GENERAL VIEW

The complete equipment weighs 42 cwt.

BRIEF DESCRIPTION

Transmitter 4T - Patt. 4807L/M

Frequency

100 kc/s - 17 Mc/s

Frequency Control -

Variable Frequency Control over whole frequency range

Fundamental crystal frequency control between 1930 and 7000 kc/s.

Doubling or trobling (up to 17000 kc/s), the frequency of a crystal having a fundamental frequency between 2400 and 7000 kc/s.

Output

25 watts (approx.)

Keying

- Maximum of 150 words per minute.

Ten plug-in range units are used to cover the frequency range.

POWER REQUIREMENTS AND CONSUMPTION

220 volts, D.C. 5 kW or 110 volts, D.C. 22 kW This power is fed to Battery Outfit BBz which gives a supply of 24V. to the Motor Generator, Patt. W147/A and 4V. for supplying the filaments.

HEAT DISSIPATION IN OFFICE 250 watts.

AERIAL SYSTEM

Single Wire (Unipole).

REMARKS

Type 60EQR can be operated with any of standard Voice and Wireless Control Outfits.

The associated wavemeter for calibrating is G61/G62.

HANDBOOK

B. R. 1461

ESTABLISHMENT LIST

E.971

INSTALLATION SPECIFICATION

B.495

THE 60 SERIES TRANSMITTER

The 60 series came in one size with many variants and was widely fitted throughout the Fleet and also ashore.

The series ran from the basic Type 60D {in ships with CWS - Central Wireless System} to the 60E {fed from batteries and available when mains power fails}, 60ER {fed from batteries and available when mains power fails + has R/T fitted}, 60FV {fed from standard AC supply + fitted in Leaders and small ships 500 to 3000 tons displacement} and 60EQR {E and R as above, the Q standing for the third modification}. Often, the only difference between a heavy ship's fit and that say of a Fleet Destroyer, was in the number of sets fitted, usually 4 in heavy ships etc.

So ubiquitous was the fit that it is worth listing the ships that were fitted or earmarked to be fitted when the equipment was first available, although this proverbial set was fitted into every new-built ship of Sloop size and above built for WW2 and subsequent to that event also. If they too were included in this list [there were 25-odd Castle Class Frigates alone and they were just one of several classes built] the list would be far too long for this subject.

Actual numbers fitted per ship is not included here.

VARIANT	SHIP	VARIANT	SHIP	VARIANT	SHIP
60D	Adamant	60E	Achilles	60EM	Abdiel
	Beatty	&	Adamant	&	Broke
	Ceylon	60ER	Adventure	60EMR	Cloud
	Charybdis	240000000	Ajax	&	Codrington
	Cleopatra		Amphion	60FV	Coldsnap
	Duke of York		Arethusa	100000000000000000000000000000000000000	Crescent Moon
	Formidable		Argos	h h	Duncan
	Gambia		Ark Royal		Ebbtime
	Hecla		Aurora		Eddy
	Hood		Australia		Exmouth
	Illustrious		Barham		Faulknor
	Implacable		Beatty		Fumarole
	Indomitable		Belfast		Grenville
	Jamaica		Berwick		Halo
	Jellicoe		Birmingham		Hardy
	King George V		Bonaventure		Harmattan
	Lion		Broke		Horizon
	Nelson		Cairo		Impetus
	Prince of Wales		Calcutta		Indian Summer
	Rodney		Caledon		Inglefield
	Signal School		Calypso		Jarvis
	Portsmouth		Canberra		Keith
	Scylla		Capetown		Kelly
	Temeraire		Caradoc		Kempenfelt
	Tyne		Cardiff		Keppel

60D	Uganda		Carlisle	T T	Laforey
Column	Unicorn		Ceres		Lance
Column	Victorious		Ceylon		Landfall
	victorious		Charybdis		Larne
			Cleopatra		Latona
			Colombo		Leeward
			Cornwall		Legion
			Courageous		Lightning
			Coventry		Lively
			Cumberland		Lookout
			Curacoa		Loyal
			Curlew		Lunar Bow
			Danae		Magician
			Dauntless		Manxman
			Delhi		Mist
			Despatch		Seabreeze
			Devonshire		Sheen
			Dido		Shower
			Diomede		Sundown
		1 × 1	Dragon		Sunset
			Duke of York		Vansittart
			Dunedin		Venomous
			Durban		Verity
			Eagle		Veteran
			Edinburgh		Volunteer
			Effingham		Wanderer
			Emerald		Whirlpool
			Enterprise		Whitehall
			Euryalus		Whitshed
			Exeter		Wild Swan
			Fiji		Wishart
			Formidable	60EM	Witch
			Forth	&	Witherington
			Furious	60EMR	Wivern
			Galatea	&	Wolverine
			Gambia	60FV	Worcester
1 1			Glasgow	Column	Wren
			Glorious		
			Gloucester		
W 87 C			Greenwich		
			Hawkins Hecla		
			0.0000000000000000000000000000000000000		
		COE 0	Hermes		
		60E &	Hermione		
		60ER	Hobart		
		Column	Hood		

-		
	Illustrious	
	Implacable	
	Indomitable	
	Jamaica	
	Jellicoe	
	Kent	
	Kenya	
	Keppel	
	Kilmun	
	King George V	
	Leander	
	Lion	
	Liverpool	
	London	
	Maidstone	
	Malaya	
	Manchester	
	Mauritius	
	Medway	
	Naiad	
	Nelson	
	Neptune	
	Newcastle	6.
	Nevassa	
	Nigeria	
100	Orion	
	Penelope	
	Phoebe	
	Prince of Wales	
	Queen Elizabeth	
	Ramillies	
	Renown	
	Repulse	
	Resolution	
	Resource	
	Revenge	
	Rodney	
	Royal Oak	
	Royal Sovereign	
	Scylla	
	Sheffield	
	Shropshire	
1	Sirius	
60E &	Southampton	
60ER	Suffolk	
Column	Sussex	
- Juniali	Jubbya	

	Sydney	
	Temeraire	
	Trinidad	
	Tyne	
	Uganda	
	Unicorn	
	Valiant	
100000	Victorious	
60E &	Warspite	
60ER	Woolwich	
Column	York	

ART OF AP W512 -UNIT, 4T. CONNECTING @@@ A.P. W514 FOR BIS BI9 PLR UNIT, 4T CONTROL BATTERY-A.P. 37 COILS LIGHTS 600 APW 398 Box FOR CELLS 60 DECK A.P.W 509 A.P.5438 A.P.W504 A.P.W503 APW507 A.P. W 508 A.P.W505 0 80 Erro (%) TRANSMITTER 4T DIAGRAMMATIC VIEW SHOWING INSTALLATION 0 00 0 600 -UNIT A.P.W333 TYPE 60 E/ER A.P.WSIO 0 A.P.WSo6 FIG. 21 A. 600 APW 511 NSIN A.P. MAINS 00 A.P.WSIO A.PW 513. BRACKET WITH RESISTANCES APW398, BOXES FOR CELLS. A.P.WSIO GENERATOR (ALTER 00 0)/

